AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

- 1. (Original): A lipid membrane structure containing an anti-membrane-type matrix metalloproteinase monoclonal antibody.
- 2. (Original): The lipid membrane structure according to claim 1, wherein the monoclonal antibody is present in a lipid membrane, on a surface of lipid membrane, in a internal space of lipid membrane, in a lipid layer, and/or on a surface of lipid layer of the lipid membrane structure.
- 3. (Original): The lipid membrane structure according to claim 1, which comprises the monoclonal antibody as a component of the lipid membrane structure.
- 4. (Original): The lipid membrane structure according to claim 1, wherein the monoclonal antibody binds to a membrane surface of the lipid membrane structure.
- 5. (Currently Amended): The lipid membrane structure according to any one of claims claim 1 to 4, wherein the monoclonal antibody consists of one or more kinds of monoclonal antibodies selected from an anti-MT1-MMP monoclonal antibody, an anti-MT2-MMP monoclonal antibody, an anti-MT3-MMP monoclonal antibody, an anti-MT4-MMP monoclonal antibody, an anti-MT5-MMP monoclonal antibody, and an anti-MT6-MMP monoclonal antibody.

6. (Currently Amended): The lipid membrane structure according to any one of claims claim 1 to 5, wherein the monoclonal antibody is a human monoclonal antibody or a mouse monoclonal antibody.

- 7. (Currently Amended): The lipid membrane structure according to any one of elaims claim 1 to 6, wherein the monoclonal antibody is a Fab fragment, a F(ab')₂ fragment, or a Fab' fragment.
- 8. (Currently Amended): The lipid membrane structure according to any one of claims claim 1 to 7, which contains a substance for binding the monoclonal antibody to the lipid membrane structure.
- 9. (Original): The lipid membrane structure according to claim 8, wherein the substance for binding the monoclonal antibody to the lipid membrane structure is a lipid derivative that can react with mercapto group in the anti-MT-MMP monoclonal antibody or a fragment thereof.
- 10. (Currently Amended): The lipid membrane structure according to any one of claims claim 1 to 9, which contains a phospholipid and/or a phospholipid derivative as a component of the lipid membrane structure.
- 11. (Original): The lipid membrane structure according to claim 10, wherein the phospholipid and/or the phospholipid derivative consists of one or more kinds of phospholipids and/or phospholipid derivatives selected from the group consisting of phosphatidylethanolamine, phosphatidylcholine, phosphatidylserine, phosphatidylinositol, phosphatidylglycerol, cardiolipin, sphingomyelin, ceramide phosphorylglycerol, ceramide phosphorylglycerol

phosphate, 1,2-dimyristoyl-1,2-deoxyphosphatidylcholine, plasmalogen and phosphatidic acid.

- 12. (Currently Amended): The lipid membrane structure according to any one of claims claim 1 to 11, which further contains a sterol as a component of the lipid membrane structure.
- 13. (Original): The lipid membrane structure according to claim 12, wherein the sterol is cholesterol and/or cholestanol.
- 14. (Currently Amended): The lipid membrane structure according to any one of claims claim 1 to 13, which has a blood retentive function.
- 15. (Original): The lipid membrane structure according to claim 14, which contains a blood retentive lipid derivative as a component of the lipid membrane structure.
- 16. (Original): The lipid membrane structure according to claim 15, wherein the blood retentive lipid derivative is a polyethylene glycol-lipid derivative or a polyglycerin-phospholipid derivative.
- 17. (Original): The lipid membrane structure according to claim 16, wherein the polyethylene glycol-lipid derivative consists of one or more kinds of polyethylene glycol-lipid derivatives selected from the group consisting of N-{carbonyl-methoxypolyethylene glycol-2000}-1,2-dipalmitoyl-sn-glycero-3-phosphoethanolamine, N-{carbonyl-methoxypolyethylene glycol-5000}-1,2-dipalmitoyl-sn-glycero-3-phosphoethanolamine, N-{carbonyl-methoxypolyethylene glycol-750}-1,2-distearoyl-sn-glycero-3-phosphoethanolamine, N-{carbonyl-methoxypolyethylene glycol-2000}-1,2-distearoyl-nethoxypolyethylene glycol-2000}-1,2-distearoyl-nethoxypolyethylene glycol-2000}-1,2-distearoyl-nethoxypolyethylene glycol-2000}-1,2-distearoyl-nethoxypolyethylene glycol-2000}-1,2-distearoyl-nethoxypolyethylene glycol-2000}-1,2-distearoyl-nethoxypolyethylene glycol-2000}-1,2-distearoyl-nethoxypolyethylene glycol-2000}-1,2-distearoyl-nethoxypolyethylene glycol-2000}-1,2-distearoyl-nethoxypolyethylene glycol-2000}-1,2-distearoyl-nethoxypolyethylene

sn-glycero-3-phosphoethanolamine and N-{carbonyl-methoxypolyethylene glycol-5000}-1,2-distearoyl-sn-glycero-3-phosphoethanolamine.

- 18. (Currently Amended): The lipid membrane structure according to any one of claims claim 1 to 17, which has a temperature change-sensitive function.
- 19. The lipid membrane structure according to claim 18, which contains a temperature-sensitive lipid derivative as a component in the lipid membrane structure.
- 20. (Original): The lipid membrane structure according to claim 19, wherein the temperature-sensitive lipid derivative is dipalmitoylphosphatidylcholine.
- 21. (Currently Amended): The lipid membrane structure according to any one of claims claim 1-to 20, which has a pH-sensitive function.
- 22. (Original): The lipid membrane structure according to claim 21, which contains a pH-sensitive lipid derivative as a component of the lipid membrane structure.
- 23. (Original): The lipid membrane structure according to claim 22, wherein the pH-sensitive lipid derivative is dioleoylphosphatidylethanolamine.
- 24. (Currently Amended): The lipid membrane structure according to any one of claims claim 1 to 23, which reacts with a membrane-type matrix metalloproteinase on a tumor cell membrane.
- 25. (Original): The lipid membrane structure according to claim 24, wherein the tumor cell is an MT-MMP expressing cell.
- 26. (Currently Amended): The lipid membrane structure according to <u>claim</u> 24 or 25, wherein the tumor cell is a cell of fibrosarcoma, squamous carcinoma, neuroblastoma, breast carcinoma, gastric cancer, hepatoma, bladder cancer, thyroid

tumor, urinary tract epithelial cancer, glioblastoma, acute myeloid leukemia, pancreatic duct cancer or prostate cancer.

- 27. (Currently Amended): The lipid membrane structure according to any one of claims claim 1 to 26, which reacts with a membrane-type matrix metalloproteinase of a neoplastic vessel.
- 28. (Currently Amended): The lipid membrane structure according to any one of claims claim 1 to 27, wherein the lipid membrane structure is in the form of micelle, emulsion, liposome or a mixture thereof.
- 29. (Currently Amended): The lipid membrane structure according to any one of claims claim 1 to 28, which is in a form of dispersion in an aqueous solvent, a lyophilized form, a spray-dried form or a frozen form.
- 30. (Currently Amended): A pharmaceutical composition comprising the lipid membrane structure according to any one of claims claim 1 to 29 and a medicinally active ingredient and/or a gene.
- 31. (Original): The pharmaceutical composition according to claim 30, wherein the medicinally active ingredient and/or gene is present in a lipid membrane, on a surface of lipid membrane, in an internal space of lipid membrane, in a lipid layer and/or on a surface of lipid layer of the lipid membrane structure.
- 32. (Currently Amended): The pharmaceutical composition according to claim 30 or 31, which is in a form of a dispersion in an aqueous solvent, a lyophilized form, a spray-dried form, or a frozen form.
- 33. (Currently Amended): A method for estimating an amount of monoclonal antibody against an anti-membrane-type matrix metalloproteinase contained in the lipid

membrane structure according to any one of claims claim 1 to 23, wherein a competitive reaction against an antigenic substance caused by both of an enzyme-labeled monoclonal antibody, prepared from the monoclonal antibody against a membrane-type matrix metalloproteinase by a known method, and the lipid membrane structure is detected by an enzyme immunoassay technique.